PowerPro 916

CALIFONE®

Portable
Public Address
Systems
Owner's
Manual

PA916 Public Address Speaker
PA916-PS Powered Companion PA
PA916-SP Passive Companion Speaker

CALIFONE®

Power Pro 916 Owner's Manual

Thank you for purchasing this PowerPro PA, the most versatile and appropriate portable PA for use in school, business, house of worship and government facilities.

I invite you to register your product online for warranty coverage at our website: www.califone.com — while you're there — make sure to visit our complete line of multimedia players and recorders, wired and wireless headphones and headsets, computer peripherals and other Califone products.

While online, make sure you register your PowerPro for its limited six year warranty.

Sincerely,

Roscoe Anthony
President, Califone® International, Inc.

Contents

a) PowerPro Public Address System
b) Power Cord
c) Operation Manual
d) RC-300 Remote Control With 2 AAA Alkaline Batteries
e) 6-Year Warranty & Registration Card
f) Project Intercept Card

Unpacking

Check carefully for damage which may have taken place during transit. Report any damage claim directly to the freight carrier immediately. Save product(s) and packaging for inspection by the carrier's claim agent. Notify your dealer of the pending claim.

Warranty Registration

Please register for your 6-year warranty online at www.califone.com to activate.

Service Repairs

Should your unit require repair contact the dealer or Califone Service Department at: (800) 722-0500 to obtain a Return Authorization number. After receiving the RA, ship the unit to Califone prepaid. Collect shipments will be refused.
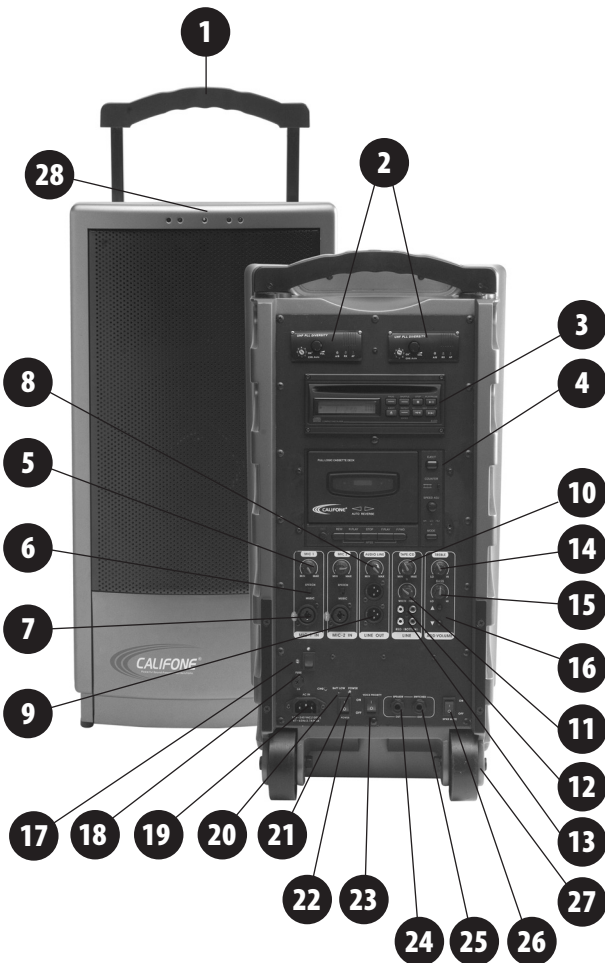
Also included may be one or more of the following optional items:

• Q-316 Handheld 16-Channel Wireless UHF Microphone with 2 AA alkaline batteries.

• M-316 Beltpack Transmitter with 2 AA alkaline batteries.

• LM-316 Lapel Microphone for the M-316

• CM-316 Flexible Collar Microphone for the M-316

• HBM-316 Headband Microphone for the M-316

• PADM-558 High Quality Handheld Wired Microphone with cable and XLR Connector. (or other Califone cabled microphone.)

Power Pro 916
SPECIFICATIONS

1	Telescoping Handle
2	Two 16-channel UHF wireless mic receivers
3	Compact Disc Player
4	Variable Speed Cassette Recorder/Player
5	Microphone Volume (2)
6	Speech/Music Switch (2)
7	XLR & 1/4" Microphone Inputs(2)
8	Audio Line Out Volume
9	Audio Line Out XLR (2)
10	CD-Tape On/Off & Volume
11	Line-In Volume Control
12	Line-In RCA Jacks
13	Line-Out RCA Jacks
14	Treble Control
15	Bass Control
16	Digital Master Volume
17	16-channel UHF Transmitter
18	5 Ampere Fuse
19	A/C Power Socket
20	Battery Low/Charge Indicators
21	Green Power On Indicator
22	Power On/Off Switch
23	Voice Priority (Ducking) Switch
24	1/4" Phone Jack Speaker Out
25	1/4" Phone Jack Speaker Out Switched
26	Speaker Mute Switch
27	Beefy 3.5" Integral Wheels
28	LED Lights for Power, RF, Audio

Operation

Battery

Charge the battery for at least 10 hours before using the PA916 or PA916-PS. Simply plug the power cord into an AC outlet and charging begins automatically. The charging indicator will flash until fully charged, then it will stay green. The unit can be used while it is plugged in for charging.

There are two indicators above the main power switch. When the unit is turned on, the one on the left will light "red" when the battery has a low charge. The one on the right will glow "green" if the battery is fully charged or if operating on A/C power.

It is recommended that the battery be recharged after several hours of usage, rather than stored with a low battery. This will prolong battery life. Storing more than 30 days without recharging will deteriorate the battery.

Digital Master Volume Control

When the main power switch is turned on, the Digital Master Volume Control is at the lowest level to prevent accidental damage to the amplifier or internal speakers. The volume can be controlled in two ways; using the "Up" "Down" buttons on the mixer panel or using the RC-300 infrared remote control. The remote sensor must be used in front of the speaker as the sensor is behind the speaker grille.

Recommended Set-up Procedure

Ideally the master volume should be at maximum volume before the wireless receiver and microphone volumes are adjusted to the desired loudness. Since there are always at least two (2) volume controls to contend with, it is suggested that prior to turning the power on the UHF receiver volume controls be set at "10 o'clock". Also set the microphone volume controls at "10 o'clock". Turn on the main power switch and use either a wireless microphone or cabled microphone to adjust the master volume.

Tape & CD

The main power switch does not control the CD and Tape recorder. A separate power switch is combined with the Tape/CD volume control to limit battery drain when the Tape or CD are not being used.

Wireless Receivers

There are two (2) independent combination XLR/1/4" jacks for using microphones with cables. Each jack has a volume control which effects the loudness of both wired and wireless microphones. Also each has a "Voice/Music" switch. On "music" program the sound is full fidelity, while on "voice" the sound is tailored to give maximum projection while limiting battery drain.

Operation continued

Line In

Insert both RCA plugs into the RCA jacks when using a stereo input. The left and right channels are combined so no program material is lost. If the source is monaural, either RCA jack can be used. The Line In volume control is used to increase or decrease the level of the input signal.

Line Out

The two RCA jacks are used to connect to the input of another piece of equipment such as a tape recorder, mixer or another amplified speaker. The outputs are monaural and volume level will depend on the volume of the source. For example, the tape or CD player level is controlled by the tape/CD volume control. Lie out is independent of the Master Volume Control.

Tone Controls

The separate base and treble controls provide a wide range of adjustment for increasing or decreasing either the bass or treble from "flat" frequency response. The center or "12 o'clock" position is flat.

Speaker Mute Switch

Engaging this switch will cut off the sound of all speakers, internal and external, except as explained in the section under "PA916-PS operation".

Voice Priority

This feature is used for voice override of the music program when using a microphone. The "ducking" circuit attenuates the music when a person speaks into the microphone. After a 3 second delay in the speech, the music returns to the previous level.
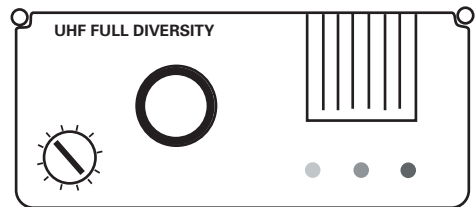
Wireless Operation

Feedback is a shrill screeching sound produced by the speaker system when a microphone is being used too close to the front of the speaker. The microphone picks up the sound of the speaker system and it becomes reamplified. It is a self-sustaining loop which can damage the system if allowed to continue, not to mention the annoyance caused to persons nearby. Always stand 4 to 6 feet from the speaker to minimize the opportunity for feedback from the speaker system.

Wireless UHF Receivers

Wireless receiver "A" is preset at the factory for channel 4 and receiver "B" is set on channel 6. There are three (3) LEDs on the receiver; power (green), RF reception (red) and Audio reception (amber).

There are also LEDs on the front of the speaker above the grille making it easy to see if the microphone and receiver are working properly. A red LED indicates RF (radio frequency) from the microphone, while an amber LED indicates audio.

Wireless Transmitter

The PowerPro PA916 incorporates a 16 channel UHF transmitter with its own power switch for wireless transmission to the Powered Companion Speakers PA916-SP. The transmitter is preset at the factory to channel 13. It is recommended that the user not randomly change this setting. If using the transmitter function change wireless receiver "A" from channel 1 to any other channel except channel 13 to prevent the transmitter from blocking the receiver.
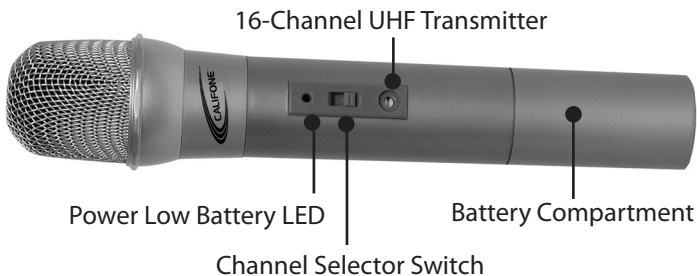
Microphone Lockout

Two wireless microphones can be used at the same time, but separate channels (frequencies) must be used. For instance, if using receiver "A" on channel 4, two microphone beltpack transmitters cannot be used at the same time. The first transmitter turned on will dominate and lock out the other. The second microphone should be used with receiver "B" on a different frequency which will allow two persons to talk at the same time.

Turn the transmitter power switch to OFF when not being used to minimize battery drain.
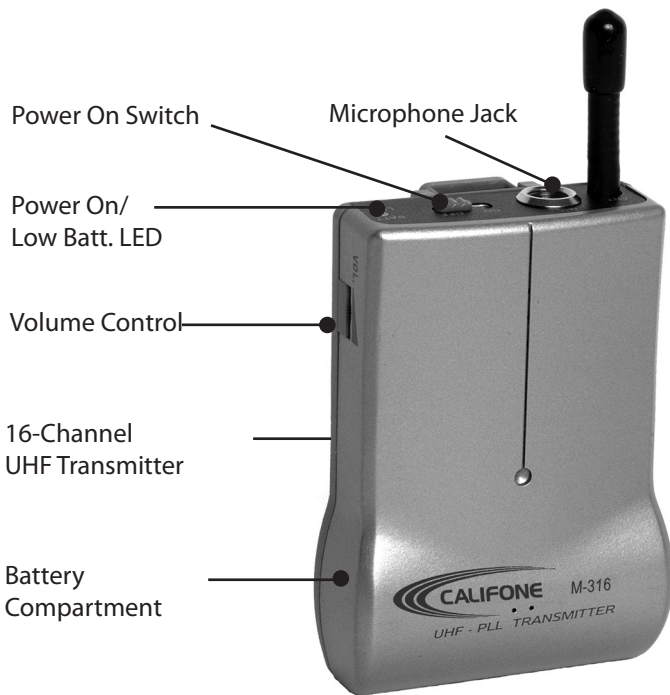
Microphones & Belt-Pack Transmitter

Q-316 Wireless Microphone

16-Channel UHF Transmitter

Power Low Battery LED

Battery Compartment

Channel Selector Switch

M-316 Wireless Belt Pack Transmitter

Power On Switch

Microphone Jack

Power On/
Low Batt. LED

Volume Control

16-Channel
UHF Transmitter

Battery
Compartment

CALIFONE M-316
UHF - PLL TRANSMITTER

LM-316 Lapel Mic

CM-316 Collar Mic

HBM-316 Headband Mic

6

Cassette Recorder/Player

Note: Remove the protective pad from behind the cassette door before inserting a cassette tape.
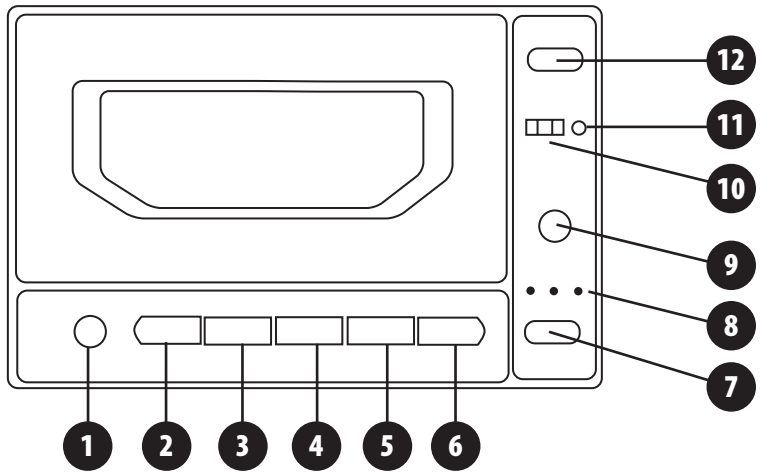
1	**RECORD**	Press this key together with either F. PLAY or R.PLAY to Record.
2	**REWIND**	Press this key to rewind the tape.
3	**REVERSE PLAY**	Press this key to Play the tape backwards.
4	**STOP**	Press this key to stop the tape.
5	**FORWARD PLAY**	Press this key to play the tape forward.
6	**FAST FORWARD**	Press this key for Fast Forward.
7	**MODE**	Press this key to select one of the following 3 modes.

1) The tape will play to the end in either direction and stop automatically.
2) The tape will play to the end in the forward mode, then reverse and play to the end of the other side of the tape in Record or Play
3) This mode provides continuous play operation in the Play function.

8	**MODE LED INDICATORS**
9	**SPEED ADJUSTMENT**
10	**COUNTER**
11	**COUNTER RESET BUTTON**
12	**EJECT**

Normal speed; center position. Turn clockwise to increase the speed in 3% increments up to 15%. Turn counter clockwise to reduce the speed in 3% increments down to 15%.

The counter is a 3-digit LCD display. Reset to "000" by pushing the button. This button opens the cassette door.
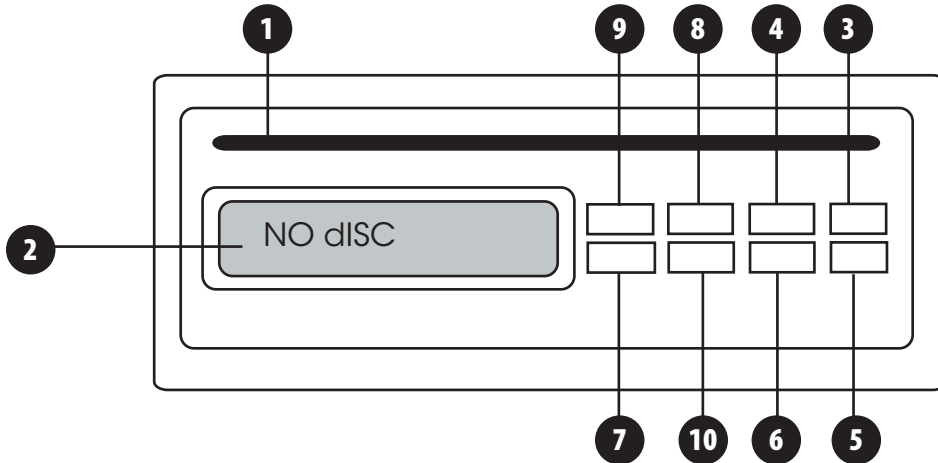
Automatic Cassette Program Search System

The APSS (Automatic Program Search System) allows the user to skip the program being played and move the tape in the Forward or in the Reverse direction to the next program or to the previous program. It operates on the principal that there is a short period of silence between programs.

When the Tape Deck is in the Play mode and the "FF" is momentarily pressed and released within 0.5 sec, the tape advances rapidly until the next program ahead is reached. At this point, the tape stops momentarily and playback of the next program starts.

When the Tape Deck is in the Play mode and the "FR" is momentarily pressed and released within 0.5 sec, the tape rewinds rapidly until the beginning of the previous program is reached. At this point the tape stops momentarily and playback of the previous program starts.

CD Player

1	**CD SLOT**	After the power is turned on the LCD display will read "NO disc" Gently push the CD into the slot and the CD will be recognized and begin playing track #1.
2	**LCD DISPLAY**	
3	**PAUSE/PLAY**	When "Play" is pressed, the first track will begin to Play. When Play is pressed again, the mode goes to Pause. When pressed a third time the mode returns to Play.

4	**STOP**	When STOP is pressed from Play or Pause the program is advanced to the end of the last track on the CD.
5	**SKIP FORWARD**	When FWD is pressed from the Stop mode, the program will advance to the first track. When pressed from Play or Pause mode, the program will advance one track. Continuing to press FWD will advance one track each time.

CD PLAYER Continued

| 6 | **SKIP/REVERSE** | When REV is pressed from the Stop mode, the program will go back one track and begin playing the last track on the CD. When pressed from Play or Pause mode, the program will go back to the beginning of the track which was already playing. Continuing to press REV will step back one track at a time. |

| 7 | **REPEAT/ENTER** | Pressing Repeat once will continuously replay the selected track. Pressing it twice will replay all tracks continuously. Pressing Repeat a third time will clear the settings. |

| 8 | **SHUFFLE** | Pressing Shuffle from Stop, Play or Pause will result in random selection of tracks and begin playing continuously. Pressing Shuffle again will clear the program. |

| 9 | **PROGRAM** | In Stop mode, press Program and observe "P 1: " on the LCD. Press FWD and see "1:01", press FWD again and see "1 :02". Press enter and "2" will appear in the upper right of the LCD. Press FWD three more times and see "1:05". Press Enter and see "5" added to the LCD. Press play and the second track will play, then advance to track 5. After playing all the selected tracks the program advances to the end of the CD. Pressing Play will repeat the program. To clear the program in the Stop mode, just press Program. Individual selections can be cleared while they are playing by pressing Program. This will not affect other selected tracks. |

| 10 | **EJECT** | Pressing Eject from any mode will advance the program to the last track on the CD and eject the CD. "NO dISC" will appear on the LCD. |

NOTE: The CD player is capable of playing CD, CD-R and CD-RW discs, however due to the condition of the disc or the original it was copied from some discs may not play.

Powered Companion Speaker PA916-PS

The Powered Companion PA has the same amplifier, power supply and speaker compliment as the full featured PowerPro PA916. It does not have the mixer panel because it can be controlled by the PowerPro PA916.

With the integral 16-channel selectable wireless UHF receiver, it can function as a stand alone PA speaker when using a Q-316 Handheld microphone or the M-316 Beltpack transmitter with a LM-316, CM-316 or HBM-316 microphone. Although there are 5 LEDs on the front of the PA916-PS only 3 lights function on this unit because there is only one receiver. The red LED indicates RF, the amber LED is for audio, and the green LED indicates power On.

Full Wireless Operation

As the transmitter on the PA-16 is preset on channel 13, the receiver of the PA916-PS is also set on 13. Any audio from the PA916 can be transmitted to the PA916-PS without wiring. There is no limit on the number of PA916-SP speakers that can be used with the PA-916 within a range of 300 feet.
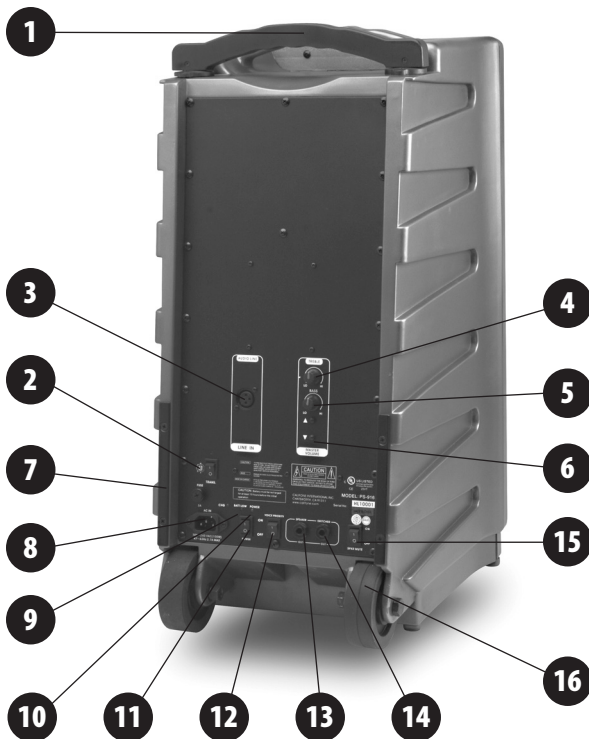
Audio Line Buss

When linking one or two PA916-PSs to the PowerPro PA916 via audio line, the PSC-50 XLR cable is connected to Audio Line Out XLR connector on the PA916. The other end is connected to Line In XLR on the Powered Companion Speaker.

The Master Volume Control on the Audio Line panel of the master will adjust the PowerPro PA916 as well as all the Powered or Passive Companion Speakers, however the loudness needs to be adjusted via the Master Volume Control on the PA916-PS as well.

Note: The mute switch on the PA916 will silence all speakers connected to it by cable. However in the full wireless mode using the transmitter of the PowerPro the mute will have no effect.

Power Pro 916-P

1	Telescoping Handle
2	16-channel UHF wireless mic receivers
3	Audio Line Out XLR
4	Treble Control
5	Bass Control
6	Digital Master Volume
7	Dual Steel Skid Guards
8	A/C Power Socket
9	Battery Low/Charge Indicators
10	Green Power On Indicator
11	Power On/Off Switch
12	Voice Priority (Ducking) Switch
13	1/4" Phone Jack Speaker Out
14	1/4" Phone Jack Speaker Out Switched
15	Speaker Mute Switch
16	Integral Wheels

Power Pro 916-SP

1	Telescoping Handle
2	1/4" Phone Jack Speaker In
3	Integral Wheels

Passive Speaker System PA916-PS Operation

The PA916-SP is connected to one of two outputs from the PowerPro PA916 or Powered Companion Speaker via SP-50 Cable with 1/4" phone plugs.

Connecting to the "Speaker Out" jack will divide the power between the PowerPro PA916 or PA916-PS and PA916-SP. Connecting to the "Switched Out" will disconnect the internal speakers of the PA916 and deliver all of the power to the PA916-SP.

NOTE: There are five (5) LEDs on the front of the speaker, however they are disconnected because there is no internal amplifier or wireless receiver in this passive system.

Mechanical Notations

Telescoping Handle and Wheels
These are only intended for pulling the PowerPro over relatively smooth surfaces. Using the handle to lift or carry the unit or pulling up stairs will cause damage not covered by the warranty.

Tripod Mount
A recess is incorporated on the bottom of all PowerPro Speakers for mounting to the TP-50 tripod.

Specifications

Acoustic Speaker Compliment

Woofer	10" Diameter, 40 Oz. Magnet, 2" Dia. Voice Coil, 6 Ohm
Tweeter	Compression Horn Driver, 12 Oz. Magnet, 1" Voice Coil, 8 Ohm
Frequency Response	45Hz to 18KHz
Amplifier	90 Watts RMS @ 5% THD (AC)
Sound Pressure Level	94 dB, 1 Watt @ 1 Meter
Power Sources	100-240 volt AC switchmode power supply and 12 volt 7 AH maintenance-free lead acid batteries (2)

Wireless System

Receiver: Two 16-channel selectable UHF diversity wireless receivers 798-805 MHz.
Antennas are hidden internally.

Microphone Transmitters
Handheld wireless microphone or beltpack transmitters optional. Powered by 2 ea. 1.5 volt AA batteries (included). Beltpack transmitter used with choice of hands-free headset, collar or lapel microphones.

CD Player
Built-in anti-shock mechanism. Fully programmable. Shuffle feature. Plays CD, CD-R/RW.

Tape Cassette
Full logic player and recorder. Automatic program search feature. 4-digit LCD tape counter. Variable speed. Auto reverse.

Transmitter to Powered Companion Speaker
16-Channel selectable UHF transmitter for wireless transmission from PA916 to multiple PA916-SP speakers. 300 ft. range.

Audio Line
Line level XLR jacks (2) providing for attaching PA916-SP speakers via cable. Features volume control for remote speaker(s).

Mixer Panel
 Mixer panel accepts two wired microphones via high quality combination connectors for both XLR and 1/4" phone plugs. Voice music switch adds emphasis in the voice range for longer range projection. Line-In via dual RCA jacks with volume control. Line-Out via dual RCA jacks. Separate Bass and Treble tone controls. Voice priority switch activates "ducking circuit" which overrides music programs when microphone is used. Speaker mute switch mutes the main speaker plus all other speakers connected. Speaker out. Both switched and unswitched 1/4" phone jacks for connecting speakers.

Dimensions	26 H x 12" W x 10" D
Weight	52 lbs.
Compliance	FCC, CE, C-UL

CAUTION

RISK OF ELECTRIC SHOCK - DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QAULIFIED PERSONNEL.

The lightening flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons.

The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

This product is not designed to function normally in strong electro-magnetic fields. Consequently, the audio quality may degrade while the product is exposed to strong electromagnetic fields. Normal audio quality operation will be recovered when the strong electromagnetic field is no longer present.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, SO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Ce produit n'est pas conçu pour un fonctionnement dans de forts champs électromagnétiques. Par conséquent, la qualité sonore peut diminuer si ce produit est exposé à un fort champ életromagnétique. La qualité sonore redeviendra normale après affaib-lisse-ment du champ électromagnétique.

IMPORTANT SAFETY INSTRUCTIONS

ATTENTION: ALL SAFETY AND OPERATING INSTRUCTIONS SHOULD BE READ BEFORE OPERATING APPLIANCE. ALL OPER-ATING AND USE INSTRUCTIONS SHOULD BE FOLLOW-ED WHEN OPERATING THE APPLIANCE. HEED AND ADHERE TO ALL WARNINGS ON THE APPLIANCE AND IN THE OPERATING INSTRUCTIONS. RETAIN ALL SAFETY AND OPERATING INSTRUC-TIONS FOR FUTURE REFERENCE.

WATER & MOISTURE - DO NOT USE THE APPLIANCE NEAR WATER; IE. BATHTUB, WASHBOWL, KITCHEN SINK, LAUNDRY TUB, WET BASEMENT OR SWIMMING POOL.

VENTILATION - DO NOT SITUATE THE APPLIANCE SO THAT ITS LOCATION OR POSITION INTERFERES WITH ITS PROPER VENTILATION. FOR EXAMPLE, THE APPLIANCE SHOULD NOT BE SITUATED ON A BED, SOFA, RUG OR SIMILAR SURFACE THAT MAY BLOCK THE VENTILATION OPENINGS. THE APPLIANCE SHOULD NOT BE PLACED IN A BUILT-IN INSTALLATION, SUCH AS A BOOKCASE OR CABINET, THAT MAY IMPEDE THE FLOW OF AIR THROUGH THE VENTILATION OPENINGS.

HEAT - SITUATE THE APPLIANCE AWAY FROM HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES OR OTHER AP-PLIANCES (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.

POWER SOURCES - CONNECT THE APPLIANCE ONLY TO A POWER SUPPLY TYPE DESCRIBED IN THE OPERATING INSTR-UC-TIONS OR MARKED ON THE APPLIANCE.

GROUNDING OR POLARIZATION - PRECAUTIONS SHOULD BE TAKEN SO THAT THE GROUNDING OR POLARIZATION MEANS OF THE APPLIANCE ARE NOT DEFEATED.

POWER CORD PROTECTION - POWER SUPPLY CORDS SHOULD BE ROUTED SO THAT THEY ARE NOT LIKELY TO BE WALKED ON OR PINCHED BY ITEMS PLACED UPON OR AGAINST THEM, PAYING PARTICULAR ATTENTION TO CORDS AT PLUGS, CONVENIENCE RECEPTACLES, AND THE POINT WHERE THEY EXIT FROM THE APPLIANCE.

CLEANING - THE APPLIANCE SHOULD BE CLEANED ONLY AS REC-OMMENDED BY THE MANUFACTURER.

NON USE PERIODS - UNPLUG THE APPLIANCE POWER CORD FROM THE OUTLET WHEN LEFT UNUSED FOR A LONG PERIOD OF TIME.

OBJECT & LIQUID ENTRY - CARE SHOULD BE TAKEN SO THAT OBJECTS DO NOT FALL AND LIQUIDS ARE NOT SPILLED INTO THE ENCLOSURE THROUGH OPENINGS.

DAMAGE REQUIRING SERVICE - THE APPLIANCE SHOULD BE SER-VICED BY QUALIFIED SERVICE PERSONNEL WHEN: (A) THE POWER SUPPLY CORD OR THE PLUG HAS BEEN DAMAGED (B) OBJECTS HAVE FALLEN OR LIQUID HAS BEEN SPILLED INTO THE APPLIANCE (C) THE APPLIANCE HAS BEEN EXPOSED TO RAIN (D) THE APPLI-ANCE DOES NOT APPEAR TO BE OPERATING NORMALLY OR EXHIB-ITS A MARKED CHANGE IN PERFORMANCE (E) THE APPLIANCE HAS BEEN DROPPED OR THE ENCLOSURE DAMAGED.

SERVICING - THE USER SHOULD NOT ATTEMPT TO SERVICE THE APPLIANCE BEYOND THAT DESCRIBED IN THE OPERATING INSTRUCTIONS. ALL OTHER SERVICING REFER TO A QUALIFIED SERVICE PERSONNEL.